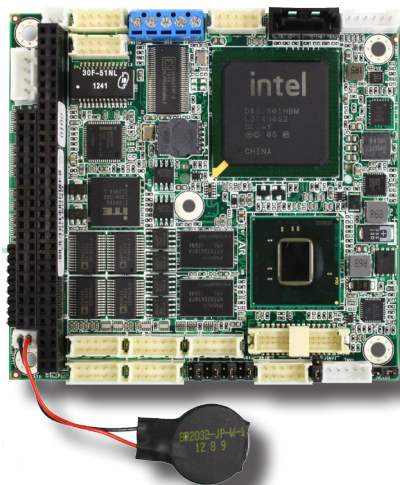


# EmModule-749E

## Intel® Atom™ N455 PC/104 CPU Module



### Features

- **Fanless Design**
- Soldered Onboard Intel® Atom™ N455 Processor
- Dual Gigabit Ethernet Ports
- 18-bit LVDS and Analog RGB
- Four Full RS-232/485 Selectable (RS-485 with Auto Flow Control)
- **Extended Operating Temp.: -40 ~ 85°C**

### System

**CPU** Soldered onboard Intel® Atom™ N455 1.66GHz processor

**Memory** Soldered onboard 1GB DDR3 SDRAM

**Chipset** Intel® ICH8M

**BIOS** AMI PnP Flash BIOS

**Watchdog Timer** 1 ~ 255 levels reset

### I/O

**I/O Chipset** Fintek F81866

**Serial Port** 4 x RS-232/485 selectable ports (RS-485 with auto flow control)

**USB Port** 2 x USB 2.0 ports

**KB/MS** 6-pin wafer connector for keyboard and mouse

**Expansion Bus** PC/104 interface

**Storage** 1 x Serial ATA port with 300MB/s HDD transfer rate

1 x CompactFlash Type II socket

**Ethernet Chipset** 2 x Intel® 82583V PCIe GbE controllers

### Display

**Graphic Chipset** Integrated Intel® Graphics Media Accelerator 3150

Analog RGB that supports resolution up to 2048 x 1536

**Graphic Interface** LCD: Single Channel 18-bit LVDS

### Mechanical & Environmental

**Power Requirement** +5V (Additional +12V might be required for LCD panel)

2.4A@+5V (Typical)

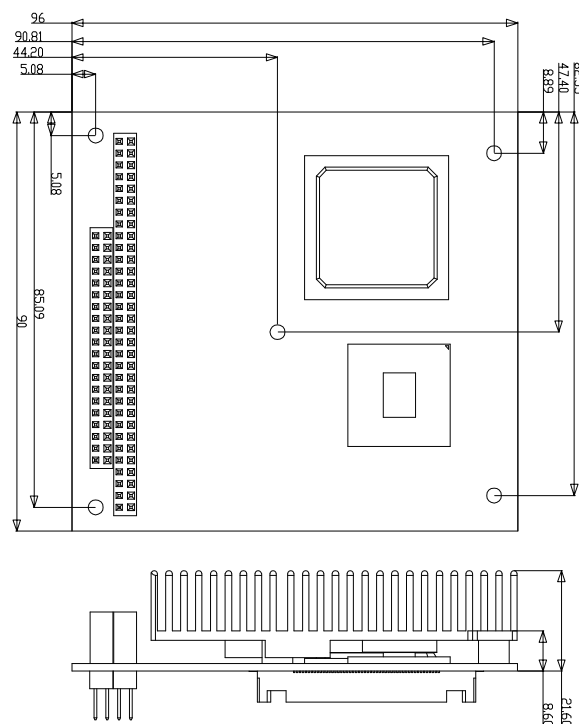
**Power Consumption** 3.28A@+12V (SATA power require for HDD)

**Operating Temp.** -40 ~ 85°C (-40 ~ 185°F)

**Operating Humidity** 10%~95% @ 85°C (non-condensing)

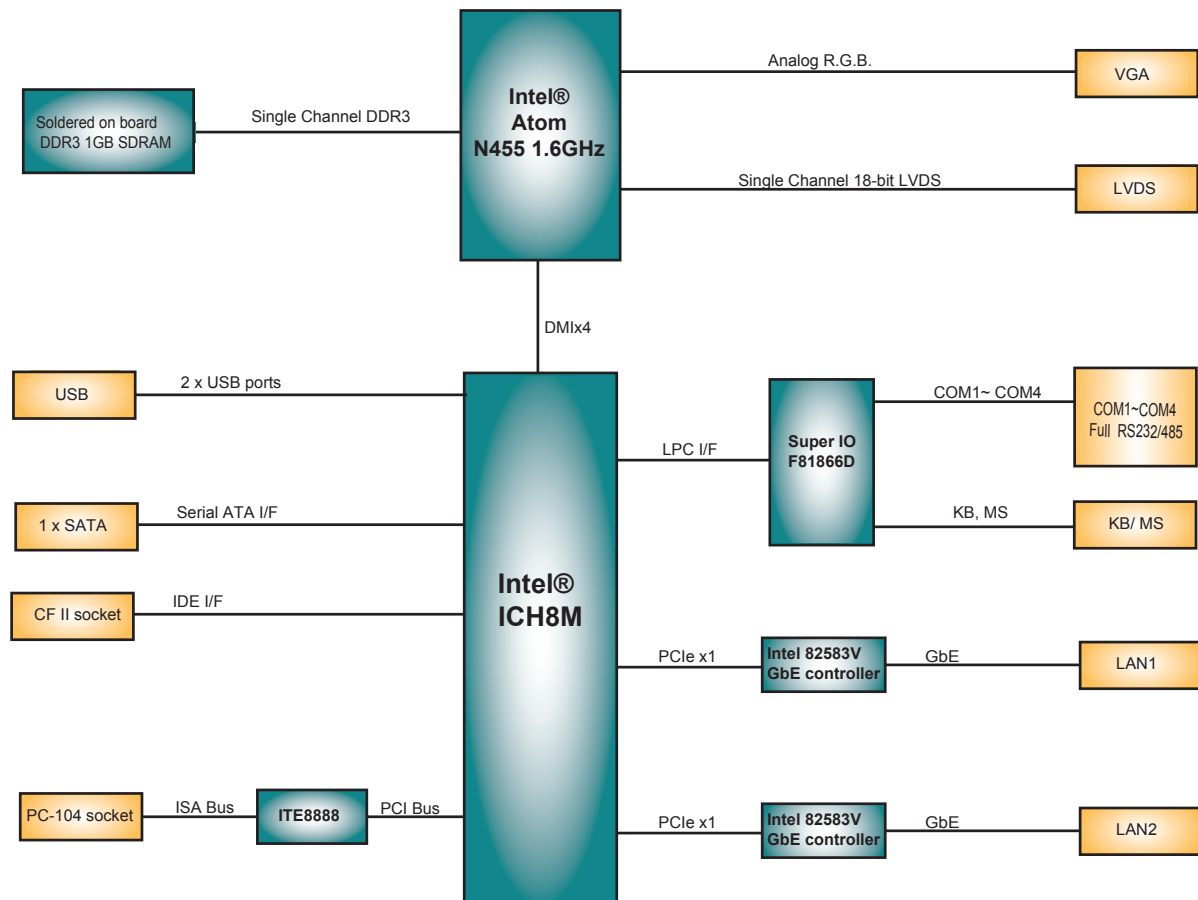
**Dimension (L x W)** 95.89 x 90.17 mm (3.775" x 3.549")

### Dimensions



Unit: mm

## Block Diagram



## Ordering Information

**EmModule-749E-N4**

Intel® Atom™ N455 PC/104 CPU module

## Optional Accessories

**CBK-11-290K-00**

- Cable kit
- 1 x SATA cable
  - 1 x SATA power cable
  - 4 x COM-port cables
  - 1 x KB & MS Y-cable
  - 1 x USB cable
  - 1 x VGA cable
  - 2 x LAN cables

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